## **VERSION WITH MARKINGS TO SHOW CHANGES MADE**

## In the Claims:

The claims have been amended as follows:

- 41. (Amended) A method of increasing light olefin yield during conversion of oxygenates to olefins comprising:
  - (a) contacting a feed including an oxygenate in a primary reactor with a small or medium pore non-zeolitic molecular sieve catalyst under first conditions effective to produce a first product including light olefins and a heavy hydrocarbon fraction including heavy hydrocarbons;
  - (b) separating said light olefins from said heavy hydrocarbon fraction;
  - (c) feeding at least a portion of said heavy hydrocarbon fraction to a second reactor selected from the group consisting of said primary reactor and a separate reactor; and
  - (d) subjecting said at least a portion of said heavy hydrocarbon fraction in said second reactor to second conditions effective to convert at least a portion of said heavy hydrocarbons to light olefins.
- 42. (Amended) A method for increasing light olefin yield during conversion of oxygenates to olefins comprising:
  - (a) contacting a feed in a primary reactor with a <u>small or medium pore</u> non-zeolitic molecular sieve catalyst under first conditions effective to produce a first product including light olefins and a heavy hydrocarbon fraction including heavy hydrocarbons;
  - (b) separating said light olefins from said heavy hydrocarbon fraction;
  - (c) feeding at least a portion of said heavy hydrocarbon fraction to a separate reactor; and

- (d) contacting said at least a portion of said heavy hydrocarbon fraction with a second molecular sieve catalyst in said separate reactor under conditions effective to promote conversion of said heavy hydrocarbons to light olefins.
- 43. (Amended) The method of claim 41 wherein said second <u>reactor contains zeolite</u> molecular sieve catalyst <del>comprises a zeolite</del>.
- 55. (Amended) A method for increasing light olefin yield during conversion of oxygenates to olefins comprising:
  - (a) contacting a feed including an oxygenate in a primary reactor with a <u>small</u>
    or medium pore non-zeolitic molecular sieve catalyst under conditions
    effective to produce a product including light olefins;
  - (b) separating said product into said light olefins and a heavy hydrocarbon fraction including heavy hydrocarbon; and
  - (c) recycling at least a portion of said heavy hydrocarbon fraction to said primary reactor.